Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

Subject Code: 152903 Date: 11/05/2 Subject Name: Fabric Structure- I			015	
Time: 02.30pm-05.00pm Instructions: Total Marks: 7				
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a)	Construct only design for the following: i. Warp way twill in S direction and weft twill in Z direction ii. Regular and Irregular hopsack	07	
	(b)	Construct design, draft, peg-plan and denting of Huck-a-back.	07	
Q.2	(a) (b)	Explain with suitable cross-section, how rib and cord effect is produced in plain weave. Construct only design and draft for the following:	07 07	
	(0)	i. Hopsack and rib combinationii. modified hopsack	U7	
	(b)	OR Construct design, draft and peg-plan for the Brighton honey comb.	07	
Q.3	(a)	Give design for the Honey comb with equal cell formation and unequal cell	07	
Q.S	(a)	formation.	07	
	(b)	Give design, draft, peg-plan and denting of mock-leno weave. OR	07	
Q.3	(a)	Enlist the derivatives of twill weave. Give only design for any of the three derivatives.	10	
	(b)	Write difference between honeycomb and brighton honeycomb.	04	
Q.4	(a)	With the help of design, draft and peg-plan, explain the construction of crepe weave using reversing and superimposing principle.	10	
	(b)	Give only design for waved Pique.	04	
Q.4		OR Construct design, draft and peg plan for the diamond weave. Give only design for the following: i. warp crock screw effect ii. Buckskin	07 07	
Q.5	(a) (b)	Write a note on Voile fabrics and also state the rules for constructing sateen. Give only design for the following: i. Weft sateen and warp satin ii. Wadded welt (draw cross section also) OR	07 07	
Q.5	(a)	Explain, with the help of design, how weft way distorted thread effect is obtained.	07	
	(b)	Construct design, draft and peg-plan for diaper weave.	07	
